

numbers observed on *Eichhornia* may be due to its root systems which carries good amount of sediment which in turn acts as an incentive for the colonization of detritophobus fauna.

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29. DIATOMS OF NAINITAL

The collections were made during a botanical excursion in October 1970 and were preserved in 4% formalin. The diatoms were cleaned by treating them first with concentrated hydrochloric acid and then with concentrated sulphuric acid to which a few crystals of potassium dichromate were added.

In this preliminary note seventeen common diatoms belonging to seven genera are included. Of these one belongs to the order Centrales while the remaining sixteen belong to Pennales. The dominant genera are *Cymbella* and *Gomphonema*.

- Cyclotella kuetzingiana** Thwaites
Diam. 9.6-12.8 μ ; striae 10-12 in 10 μ
In Naini lake and in a pond.
- Synedra ulna** (Nitz.) Ehr.
L. 62-106 μ ; B. 6.4-9.6 (at tip 2-3.2) μ ; striae 10-11 in 10 μ .
In pools and puddles.
- Navicula cryptocephala** Kuetz.
L. 32-49 μ ; B. 6-6.5 μ ; striae 12-18 in 10 μ .
In Naini lake.
- Caloneis silicula** (Ehr.) Cleve
L. 48-53 μ ; B. 10-13 μ ; striae 16-18 in 10 μ .
In pools and puddles.
- Gomphonema aequatoriale** Husted
L. 27-43 μ ; B. 6-11 μ ; striae 10-13 in 10 μ .
In pools and puddles.
- G. gracile** Ehr.
L. 40-42.5 μ ; B. 8-8.5 μ ; striae 9-10 in 10 μ .
In Naini lake.
- G. olivaceum** (Lyngb.) Kuetz. v. *calcareum* Cleve
L. 50-52 μ ; B. 10-11.4 μ ; striae 12-13 in 10 μ .
In a pool.
- G. parvulum** (Kuetz.) Grun.
L. 35-41 μ ; B. 9-9.6 μ ; striae 12-13 in 10 μ .
In pools and in Naini lake.
- G. sphaerophorum** Ehr.
L. 30-40.5 μ ; B. 10-11.3 μ ; striae 10-11 in 10 μ .
In Naini lake.
- Cymbella aspera** (Ehr.) Cleve
L. 84-90 μ ; B. 26-28.6 μ ; striae 6-8 in 10 μ .
In a small pond.
- C. hustedtii** Krasske
L. 17.6-18.8 μ ; B. 6.4-7 μ ; striae 12-13 in 10 μ .
In a puddle.
- C. kerkevarensis** A. Cl.
L. 20-22 μ ; B. 7-8 μ ; striae 11-12 in 10 μ .
In a pool and in a small pond.
- C. rupicola** Grun.
L. 30-40 μ ; B. 10-12 μ ; striae 12-14 in 10 μ .
In a pool.
- C. tumescens** A. Cl.
L. 28.8-32 μ ; B. 8-9.4 μ ; striae 10-12 in 10 μ .
In Naini lake.
- C. tumida** (Breb.) V. H.
L. 57-62 μ ; B. 18-19.5 μ ; striae 11-12 in 10 μ .
In puddles and in Naini lake.
- C. tumida** (Breb.) V. H. f. *ventricosa* Gandhi
L. 68-72 μ ; B. 19-20.5 μ ; striae 10-13 in 10 μ .
In a small pond.
- Nitzschia amphibia** Grun.
L. 19-22 μ ; B. 4.5-5 μ ; striae 15-18 in 10 μ ; punctae 17-21 in 10 μ
In pools.

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